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FEB 1952 51-44A

CENTRAL INTELLIGENCE AGENCY

CIRCULATE

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SECURITY INFORMATION

INFORMATION REPORT

REPORT

CD NO.

COUNTRY East Germany

DATE DISTR. 26 November 1952

SUBJECT Activities at RFT Funkwerk Koepenick

NO. OF PAGES 4

DATE OF INFO.

NO. OF ENCLS. 2 (3 pages) (LISTED BELOW)

PLACE ACQUIRED

SUPPLEMENT TO REPORT NO. 50X1-HUM

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1. Functions and Organization

This plant, located in Berlin-Koepenick, Wendenschlossstrasse 154-158, is concerned with the development of telecommunications equipment, marine signalling and navigation equipment, and certain other electrical and electronic equipment, and with the manufacture of this equipment in small quantities. It does not undertake mass production.

2. Apart from administrative, personnel, and accounting sections, the plant is divided into two main branches, one for development and one for production.

3. New Departments

Two new independent development departments were founded during August 1952. Neither has yet been assigned the space and staff required to start work. These departments are the following:

a. TEA Aerials (Technische Entwicklung-Antennen)

Head: Dr. Schuettloeffel (fnu)
Assistants: Walter (fnu) and Lorek (fnu)

This section will deal with all problems affecting aerials, irrespective of type.

b. TEK Commercial Radio (Kommerzieller Funk)

Head: Dr. Grimm (fnu)

This section has as yet no establishment and no premises. It will deal with

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official (civilian) requirements for wireless communication and navigation systems. It is scheduled to develop a "MUSA" installation (Musaanlage) and a hyperbolic navigation device (Hyperbolgeraet).

4. Summary of development assignments

a. TEW - HF heat generators

Electronic equipment is being developed for surface hardening of metals. No further details are known.

b. TK1 and TK2 - large transmitters

The following projects are in progress:

(1). Construction of a 20 kw mobile medium wave transmitter. The proposed use is not known.

(2). Construction of a 150 kw single side band (carrier suppressed) transmitter for installation at Mahlsdorf.

(3). Development of 20 kw marine transmitter for the 0.6 - 3 MHz band.

c. TEG - marine signalling and navigation equipment

The following projects are in progress:

(1). Development of a normal recording pressure log (Fahrtmesser).

(2). Development of a ship's telegraph on the three phase system (Machinentelegrafen).

(3). Development of an electromagnetic system for remote reading of ship's instruments and bridge telegram (Drehmeldersystem).

(4). Development of a radar (see para 5 below).

(5). Reproduction of an Anschuetz master gyro compass (copy of a specimen purchased for this purpose) and development of suitable repeater compasses.

d. TEF - marine radio equipment

The following projects are in progress:

(1). W/T sets for fishing cutters.

(2). All-wave marine receivers (150 KHz - 30 MHz).

(3). 800 watt marine transmitters.

(4). Small and emergency marine transmitters.

(5). Goniometer DF sets long waves, Telefunken type.

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e. TEM - measuring instruments

The following projects are in progress:

(1). Calibration receivers (Eichempfaenger).

(2). Signal generator (Messsender).

(3). Spectrometers for ranges 1 - 300 Hz and 20 - 30 KHz.

(4). Calibrated amplifiers (Messverstaerker)

5. Development of a radar

a. The following are members of the group in Section TEG who are engaged on the project:

Manthey (fnu)
Kleinspehn (fnu)
Munte (fnu)

b. Aerial problems will be dealt with by Schuettloeffel's TEA section.

c. The project appears to have been initiated as the result of a visit by Weirauch (fnu) of the Buero fuer Wirtschaftsfragen to Funkwerk Koepenick in early June 1952. The identity of the organization ultimately interested in sponsoring this development project is not known.

d. Drawings of a German war-time copy (known in Germany as "Metto")[1] of an [redacted] radar (type not known) are being used to guide the designers. The device is not a reproduction of "Metto". 50X1-HUM

e. Pulse generator (Impulsgenerator)

A 3 cm magnetron (type 730) is to be used. The apparatus is to function on a frequency of 60 MHz.[2] A crystal is to be used in the first stage to control the accuracy of pulse emission.

f. Intermediate amplifier (Zwischenverstaerker)

A design has been approved and work is progressing. No further details are known.

g. Presentation screen (Sichtgeraet)

No details of this are known except that it is not at present the intention to calibrate the screen with range markings (Entfernungsmarken).

h. Aerial and reflector

A drawing of an iron former to be used in manufacturing a parabolic reflector

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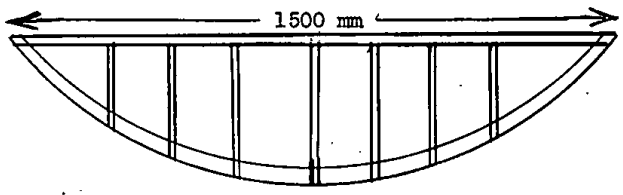
has been seen. The general appearance of this former is shown below:



The diameter of the former itself is indicated on the drawing as 1500 mm. No further details of the reflector are known. The socket to which the aerial itself will be attached is to be equipped with slip-rings (Schleifringe), which has given rise to the supposition that the aerial itself will be required to rotate. The aerial proper, which will be the responsibility of Dr. Schuettloeffel's new group (TEA) has yet to be designed.

6. Disposal of products

The majority of products are permanently installed in East Germany, including marine equipment built into Russian ships in East German harbors. Measuring equipment, however, is mostly exported direct to the USSR.

50X1-HUM

1. [redacted] Comment. In November 1946 [redacted] OSW was instructed by the Russians to produce a quantity (not specified) of the magnetron Type 725A. This tube was to be used in an equipment called "Meddo" which was to be a copy of the German Berlin Geraete, except that it was to operate on 3.2 cm and not 10 cm.

2. [redacted] Comment. [redacted] it appears that 60 MHz relates to the intermediary frequency.

50X1-HUM

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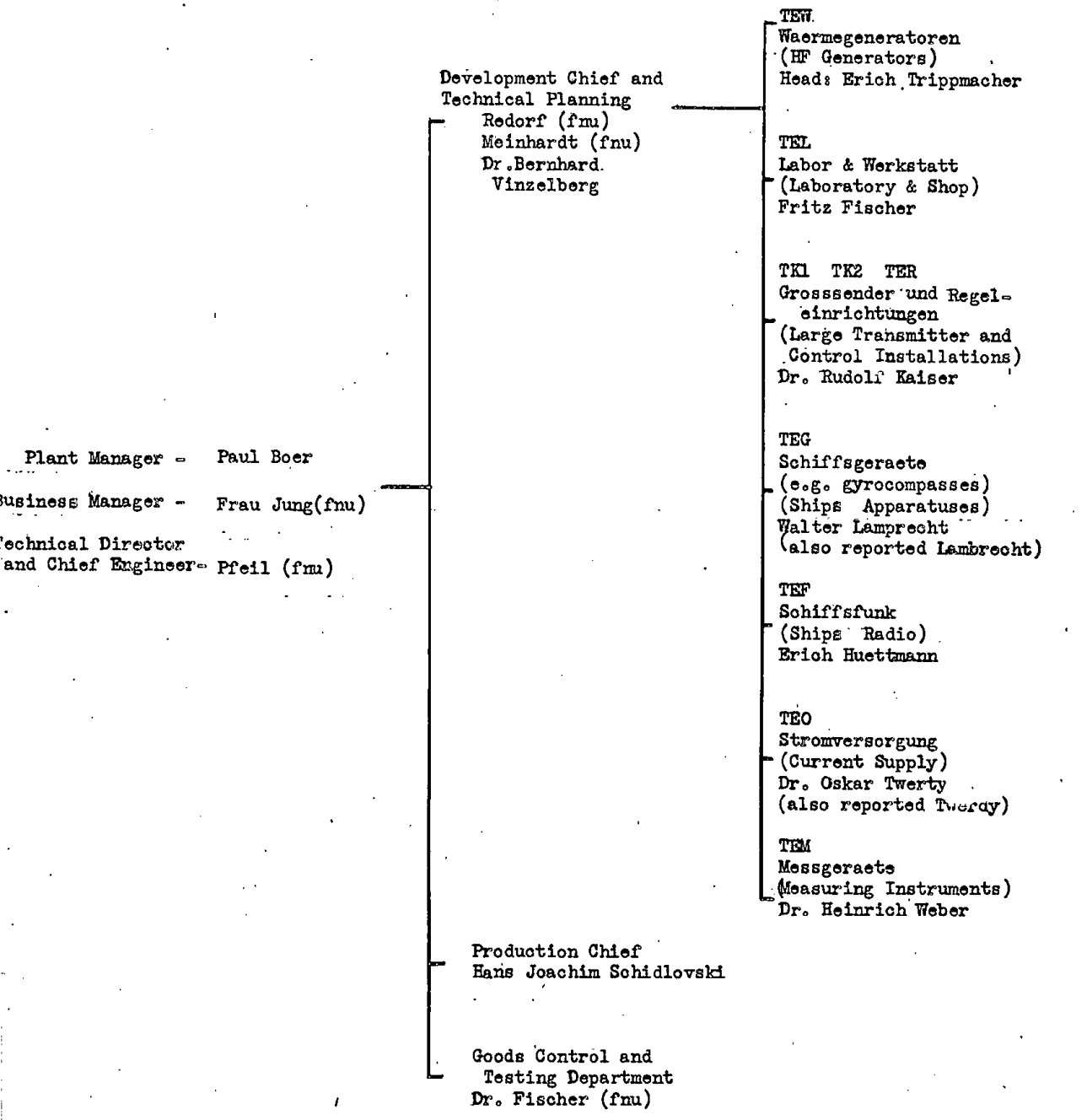
Annex 1 [ ] 50X1-HUM



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Annex 2

German Specialists Repatriated from the USSR

1. Schuettloeffel (fnu)	Head of new Funkwerk Koepenick TEA (see Paragraph 3a); home town Halle.
Grimm[1]	Head of new TEK Department (see Paragraph 3b); home town Halle.
Hass, Dr. (fnu)	Working for the Intendanz des Berliner Rundfunks at Berlin-Adlershof; [redacted] 50X1-HUM
Klages[2]	Present location unknown. Has visited Funkwerk Koepenick; while in Russia, did not receive any of the war time Strassburg receivers forwarded to Russian from Germany after 1948; in Russia, developed test equipment for the 230 V receiver.
Zeletsky[3]	Employed in Funkwerk Koepenick in Section TES; appears to be sympathetic towards the Russians.
Schloemilch, Dr.[4]	[redacted] 50X1-HUM
Kluge, Dr.[5]	

2. Klages remarked during his visit to Funkwerk Koepenick that Eisenberger (fnu), Kuhl[6] and Jossweg (fnu) have renewed their contracts of employment in the USSR. He added that Buschbeck[7] had refused a reward offered for work done in Russia on the ground that his work did not merit a reward.

Wissenschaftlich-Technisches Buero (WTB), Berlin-Lichtenberg, Neue Bahnhofstrasse 9 - 11

3. This office is subordinate to SAG Awtowelo and is concerned, inter alia, with the development of radar and of a recording echo-sounder. The director is Shapanov (fnu). The office employs Germans. Part of Werk II, presumably the development branch of Werk fuer Fernmeldewesen HF (OSW), is also located on the premises at Neue Bahnhofstrasse 9 to 11.

[redacted] Comments: 50X1-HUM

1. Probably Dr. Wilhelm Grimm, Dipl.Ing.; formerly with Telefunken and with OSW, HF Physics Laboratory.

2. Probably Dr. Siegfried Klages; [redacted] 50X1-HUM

3. Probably Oberingenieur Zeletztky; formerly with Telefunken.

4. Probably identical with Dr. Schloemilch; [redacted] 50X1-HUM

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Declassified in Part - Sanitized Copy Approved for Release 2013/05/02 : CIA-RDP82-00457R015100020010-8

5. Probably Dr. Werner Kluge; formerly head of the Technical Department, OSW.

6. Probably Hans Kuhl; [redacted] 50X1-HUM

7. Probably Werner Wilhelm Buschbeck; [redacted] 50X1-HUM

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